

L4 ANSWER 386 OF 561 CA COPYRIGHT 2004 ACS on STN
AN 110:120184 CA
ED Entered STN: 03 Apr 1989
TI Hydraulic cement with high durability and strength
IN Uchida, Shunichiro; Habara, Toshisuke
PA Onoda Cement Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C04B007-345
CC 58-1 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | JP 63248751 | A2 | 19881017 | JP 1987-79717 | 19870402 |
| PRAI | JP 1987-79717 | | 19870402 | | |

AB The hydraulic cement contains $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{CaX}_2$ (X = halogen) 5-30, anhydrite 5-30, $\text{Al}(\text{OH})_3$ and/or $\text{Al}_2(\text{SO}_4)_3$ 0.5-10%, and balance Ca silicate and/or siliceous powder at a $(\text{CaO} \cdot 3\text{Al}_2\text{O}_3 \cdot \text{SO}_3)/\text{SiO}_2$ mol ratio 1 to <1.7. Thus, cement, comprising $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{CaF}_2$ 13, C3S 27, blast-furnace slag 40, anhydrite 19, and $\text{Al}(\text{OH})_3$ 1 wt.%, was mixed with sand, alkali-resistant glass fiber, Mighty 150, HNO_3 (as setting retardant), and water, molded, and hardened to give a cement product having initial, 7-, and 91-day bending strength 240, 320, 290 kg/cm^2 , resp.

ST calcium aluminate hydraulic cement; silicate calcium hydraulic cement; anhydrite hydraulic cement; aluminum hydratite hydraulic cement; blast furnace slag hydraulic cement

IT Glass fibers, uses and miscellaneous

RL: USES (Uses)
(cement reinforced with, manuf. of